

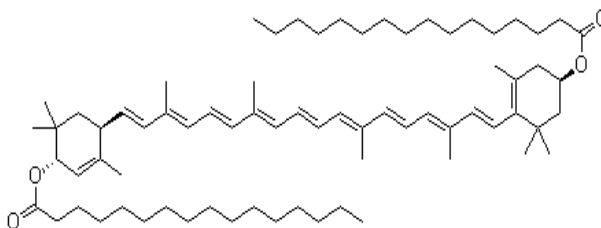
SPECIFICATION SHEET

Lutision™ Lutein Esters 5% CWS Powder

Chemical Formula: $C_{72}H_{116}O_4$

CAS: 547-17-1

Molecular Weight: 1045.71



GENERAL CHARACTERISTICS

Description	Lutein Esters 5% CWS Powder is an orange-red microencapsulated powder quickly dispersed in cold water to produce a virtually particle free result.
Appearance	Free-flowing powder
Odor	Orange-red

ANALYTICAL CHARACTERISTICS

Total Carotenoids	Min 5.0%
Lutein Esters	Min 4.5%
Bulk Density (g/mL)	0.35~0.70
Loss on drying	Max 5.0%
Particle size	NLT 95% through 80 mesh
Lead	Max 1.0 ppm
Arsenic	Max 1.0 ppm
Cadmium	Max 1.0 ppm
Mercury	Max 0.1 ppm

MICROBIAL CHARACTERISTICS

Total plate count	Max 1000 CFU/g
Yeasts and molds	Max 100 CFU/g
Coliforms	Max 10CFU/g
<i>E. Coli</i>	Negative



<i>Salmonella</i>	Negative/25g
<i>Staphylococcus aureus</i>	Negative/g

INGREDIENTS

Comprises: lutein esters, dextrin, Natural Carotenoid

LABELING

In the United States and the European Union: Lutision™ Lutein Esters 5% CWS Powder

USES RECOMMENDATIONS

As a coloring agent and a nutrient for food such as fast food, baking food, drink, jelly, confectionery and dairy products.

HANDING RECOMMENDATIONS

Store in a dry and cool place, protected from light, heat and oxygen. The preferred storage temperature is below 30°C. This product is stable for at least two years in the unopened original package. It is recommended to use the entire contents after opening.

PACKING & SHELF LIFE

Package	5 kg aluminum bag purged with nitrogen, 5 bags/cardboard drum
Shelf life	This product is stable for at least two years in the unopened original package. It is recommended to use the entire contents after opening.